



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,028	04/25/2006	Antje Ziemer	29827/41951	4892
4743	7590	05/27/2010	EXAMINER	
MARSHALL, GERSTEIN & BORUN LLP			BOYER, CHARLES I	
233 SOUTH WACKER DRIVE				
6300 WILLIS TOWER			ART UNIT	PAPER NUMBER
CHICAGO, IL 60606-6357			1796	
			MAIL DATE	DELIVERY MODE
			05/27/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/577,028	ZIEMER ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Charles I. Boyer	1796	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 20 January 2010.

2a) This action is **FINAL**.                    2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-13, 15 and 16 is/are pending in the application.

4a) Of the above claim(s) 9-13 and 15 is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1-4, 6-8 and 16 is/are rejected.

7) Claim(s) 5 is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____ .	5) <input type="checkbox"/> Notice of Informal Patent Application
	6) <input type="checkbox"/> Other: _____ .

## **DETAILED ACTION**

This action is responsive to applicants' amendment and response received January 20, 2010. Claims 1-13, 15, and 16 are currently pending with claims 9-13 and 15 being withdrawn.

### ***Claim Rejections - 35 USC § 102***

1. All prior art rejections under 35 USC 102 set forth in the previous office action are withdrawn in view of applicants' amendment and response.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-4, 6-8, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gartner et al, US 6,916,864.

Gartner et al teach polyelectrolyte emulsions for the manufacture of superabsorbent polymers (see abstract). One phase of the emulsion contains both organic solvents and surfactants, as well as a dispersant (col. 4, lines 49-59). After the polymer is formed, the polymer may be treated with mixtures of inversion agents, including nonionic surfactants, glycol ethers, including monoethers, and titanium dioxide (col. 9, lines 27-52, and col. 17, lines 11-19). Accordingly, it would have been obvious

Art Unit: 1796

to contact, i.e. coat these polymers with these inversion agents with a reasonable expectation of successfully obtaining an effective SAP.

Applicants have traversed this rejection on the grounds that the '864 patent discloses high internal phase polyelectrolyte emulsions used in the production of superabsorbent polymers, wherein the emulsions may be inverted using five different techniques to accomplish such an inversion, one of which uses LCST solvents, and another uses metal oxides, such as titanium oxide. Applicants argue that the reference does not teach using a combination of these inversion techniques and so the reference does not render obvious the present claims.

First, the examiner notes that claim 1 does not require both a solvent and a metal cation, and with respect to claim 4, the examiner disagrees that one of ordinary skill in the art, wishing to invert an emulsion, and aware of the teachings of the reference, would not use a combination of inversion techniques to arrive at an inverted emulsion.

4. The rejection of claims 1-6 under 35 U.S.C. 103(a) as being unpatentable over Smith et al, US 2007/0254177 is withdrawn in view of applicants' amendment and response.

#### ***Allowable Subject Matter***

5. Claim 5 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Conclusion***

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles I. Boyer whose telephone number is 571 272 1311. The examiner can normally be reached on M-Th 9:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on 571 272 1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1796

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Charles I Boyer  
Primary Examiner  
Art Unit 1796

/Charles I Boyer/  
Primary Examiner, Art Unit 1796